PATENT COOPERATION TREATY



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| From the INTERNATIONAL SEAR | CHING AUTHORITY | 15 | feb 05 | | PCT |
| To: AMERSHAM PLC | DUE DATE: | 29 | MA7 05N | OTIFICATION | OF TRANSMITTAL OF |
| Attn. Rollins, Anthony Amersham Place | JORMALITIES: | 1-15 | THE WE | RITTEN OPINIC | AL SEARCH REPORT AND ON OF THE INTERNATIONAL ITY, OR THE DECLARATION |
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| Buckinghamshire HP7 9NA UNITED KINGDOM | ON DB: | 15 | DEC 04 | | |
| | CASE NO: | PA | 0363-PC | Î (P | CT Rule 44.1) |
| | | | Date of mailin (day/month/ye | 221 | 12/2004 |
| Applicant's or agent's file reference | | - | | | 2, 2001 |
| PA0363-PCT | | | FOR FURTI | HER ACTION | See paragraphs 1 and 4 below |
| International application No. PCT/GB2004/003247 | | | International f | 226 | 07/2004 |
| Applicant | | | | · | |
| AMEDOUAN PIOCOTONODO III | , twimpp | | | | |
| AMERSHAM BIOSCIENCES U | C LMITED | | | | |
| 1. X The applicant is hereby notification Authority have been establish | | | | written opinion of | the International Searching |
| Filing of amendments and | statement under Artic | le 19: | | | |
| The applicant is entitled, if he When? The time limit for | | s is nor | mally 2 months | from the date of t | ransmittal of the |
| Where? Directly to the Int | ernational Bureau of W | IPO, 34 | t chemin des Co | olombettes | ompanying sneet. |
| 12 For more detailed instruction | 11 Geneva 20, Switzerlons, see the notes on the | | • | • | |
| 2. The applicant is hereby notifing Article 17(2)(a) to that effect | | | | | |
| 3. With regard to the protest | against payment of (an |) additio | onal fee(s) unde | er Rule 40.2, the a | applicant is notified that: |
| applicant's request to fo | orward the texts of both | the pro | test and the de | cision thereon to | Bureau together with the the designated Offices. |
| no decision has been m | nade yet on the protest; | the ap | plicant will be no | otified as soon as | a decision is made. |
| 4. Reminders Shortly after the expiration of 18 m International Bureau. If the applica application, or of the priority claim, before the completion of the techn | nt wishes to avoid or po must reach the Interna | stpone tional E | publication, a r Bureau as provid | notice of withdraw | al of the international |
| The applicant may submit commer International Bureau. The Internati international preliminary examinati the public but not before the expira | onal Bureau will send a on report has been or is | copy o | of such commen established. The | ts to all designate | ed Offices unless an |
| Within 19 months from the priority examination must be filed if the ap date (in some Offices even later); acts for entry into the national pha | plicant wishes to postpo otherwise, the applicant | one the must, | entry into the n within 20 mont | ational phase unt | il 30 months from the priority |
| In respect of other designated Office months. | ces, the time limit of 30 | month | s (or later) will | apply even if no o | demand is filed within 19 |
| See the Annex to Form PCT/IB/30 Guide, Volume II, National Chapte | 1 and, for details about rs and the WIPO Interr | the appart | plicable time lim | its, Office by Offic | ce, see the PCT Applicant's |
| Name and mailing address of the Inter | rnational Searching Aut | hority | Authorized of | ficer | |
| European Patent Office, F | | , | 1 | d Condro | 2 |
| Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016 | Tx. 31 651 epo nl, | | 1.11016 | .a condroi | 1 |

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international pbulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples Illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | FOR FURTHER | see Form PCT/ISA/220 | \neg |
|--|---|---|--------------|
| DRAZCZ DOM | 1 | ell as, where applicable, item 5 below. | ı |
| PA0363-PCT International application No. | International filing date (day/month/year) | (Earliest) Priority Date (day/month/year) | ㅓ |
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| PCT/GB2004/003247 | 28/07/2004 | 29/07/2003 | _ |
| Applicant | | | 1 |
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| AMERSHAM BIOSCIENCES UK LI | MITED | | _ |
| This International Search Report has bee | n prepared by this International Searching Ar | uthority and is transmitted to the applicant | |
| according to Article 18. A copy is being tra | ansmitted to the international Bureau. | | |
| This International Search Report consists | of a total of sheets. | · | |
| X It is also accompanied by | a copy of each prior art document cited in the | is report. | |
| 1. Basis of the report | | | ヿ |
| a. With regard to the language, the | international search was carried out on the teless otherwise indicated under this item. | easis of the international application in the | |
| The international this Authority (Ru | | slation of the international application furnished to | |
| | · // | ed in the international application, see Box No. I. | |
| 2. Certain claims were fou | ind unsearchable (See Box II). | | |
| 3. Unity of invention is lac | cking (see Box III). | | |
| 4. With regard to the title, | | t | ם |
| | ubmitted by the applicant. | Ţ | חמ |
| I | shed by this Authority to read as follows: | <u> </u> | 7 |
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| 5. With regard to the abstract, | | <u>C</u> | <u>)</u> |
| | ubmitted by the applicant. | 7 | j |
| | | ority as it appears in Box No. IV. The applicant | |
| may, within one month fr | om the date of mailing of this international se | earch report, submit comments to this Authority. | |
| 6. With regards to the drawings, | • | | |
| | published with the abstract is Figure No | 3 | |
| X as suggested by | | | |
| as selected by the | nis Authority, because the applicant failed to | suggest a figure. | |
| as selected by the | nis Authority, because this figure better chara | cterizes the invention. | |
| b. none of the figures is to I | be published with the abstract. | | |

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/003247

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01N1/30 G01N21/64 G01N33/487

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) I PC $\,\,7\,$ G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, COMPENDEX, MEDLINE, EMBASE, BIOSIS

| C. DOCUM | ENTS CONSIDERED TO BE RELEVANT | |
|------------|--|-----------------------|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| Y | US 5 347 139 A (BARKER DAVID L ET AL) 13 September 1994 (1994-09-13) column 2, lines 4-30 claims 1,10 | 1-36 |
| Υ | US 4 389 670 A (CASE ARTHUR L ET AL) 21 June 1983 (1983-06-21) column 2, line 50 - column 3, line 35 column 4, lines 22-55 column 5, lines 7-37 | 1-36 |
| Υ | PATENT ABSTRACTS OF JAPAN vol. 0082, no. 54 (P-315), 21 November 1984 (1984-11-21) & JP 59 126529 A (FUJI SHASHIN FILM KK), 21 July 1984 (1984-07-21) abstract | 1-36 |
| | | |

| Further documents are listed in the continuation of box C. | X Patent family members are listed in annex. |
|---|---|
| Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed | 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family |
| Date of the actual completion of the international search 7 December 2004 | Date of mailing of the international search report 15/12/2004 |
| Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | Authorized officer Michalitsch, R |

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/003247

| | ation) DOCUMENTS CONSIDERED TO BE RELEVANT | |
|------------|--|-----------------------|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| Y | EP 0 401 077 A (BIOLOG VISIONS) 5 December 1990 (1990-12-05) column 4, line 33 - column 5, line 40 column 18, lines 14-44 column 19, lines 30-51 claims 16,17 | 1-36 |
| Υ | DE 100 65 632 A (SMTECH BIOVISION HOLDING AG EC) 15 November 2001 (2001-11-15) abstract paragraphs '0007!, '0008! paragraphs '0015! - '0017! | 1-36 |
| A | DEMONGEOT J ET AL: "A differential geometry approach for biomedical image processing" COMPTES RENDUS - BIOLOGIES, ELSEVIER, PARIS, FR, vol. 325, no. 4, April 2002 (2002-04), pages 367-374, XP004371772 ISSN: 1631-0691 the whole document | 1-36 |
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB2004/003247

| Patent document cited in search report | | Publication date | | Patent family member(s) | Publication date |
|--|---|------------------|----------------------------|---|--|
| US 5347139 | Α | 13-09-1994 | NONE | | |
| US 4389670 | Α | 21-06-1983 | NONE | | |
| JP 59126529 | Α | 21-07-1984 | JP JP EP US | 1630735 C 2059955 B 0113677 A2 4837733 A | 26-12-1991 13-12-1990 18-07-1984 06-06-1989 |
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| DE 10065632 | A | 15-11-2001 | DE AU WO EP US | 10065632 A1 6228401 A 0185991 A2 1280939 A2 2003165929 A1 | 15-11-2001 20-11-2001 15-11-2001 05-02-2003 04-09-2003 |